



PRODUCT DATA SHEET

SECTION I

MANUFACTURER'S NAME Instapak Corporation		EMERGENCY TELEPHONE NO. 203-792-2360
ADDRESS (Number, Street, City, State, and ZIP Code) Old Sherman Turnpike - Danbury, Ct. 06810		
CHEMICAL NAME AND SYNONYMS Diphenyl Methane Diisocyanate		TRADE NAME AND SYNONYMS Instapak S-1 Component A
CHEMICAL FAMILY Polymeric Isocyanate	FORMULA	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Diphenylmethane diisocyanate				~50	0.02ppm
Higher polymers of similar structure				~50	not established

SECTION III - PHYSICAL DATA

BOILING POINT (°F.) at 5mm Hg	208°C	SPECIFIC GRAVITY (H ₂ O=1)	1.24
VAPOR PRESSURE (mm Hg.) at 25°C	<.001mmHg	PERCENT VOLATILE BY VOLUME (%)	
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (_____ =1)	
SOLUBILITY IN WATER	Insol.		
APPEARANCE AND ODOR Brown viscous liquid, slightly aromatic odor			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	213°C (C.O.C.)	FLAMMABLE LIMITS	LeI	UeI
EXTINGUISHING MEDIA		FIRE POINT 232°C		
CO ₂ , dry chemical, chemical foam or water fog				
SPECIAL FIRE FIGHTING PROCEDURES				
Provide usual firearms' protective clothing plus self-contained breathing apparatus to protect from product vapors.				
UNUSUAL FIRE AND EXPLOSION HAZARDS				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	.02 ppm for Diphenylmethane diisocyanate
EFFECTS OF OVEREXPOSURE	Irritation of mucous membrane, tightness of chest, irritation of respiratory tract coughing, headache and shortness of breath. Repeated over exposure can lead to allergic sensitivity.
EMERGENCY AND FIRST AID PROCEDURES	Skin - wash with soap & water for at least 5 min. Eyes - wash with large amounts of water for at least 15 min., consult eye physician. Internal - induce vomiting consult physician. Inhalation - remove to uncontaminated area; administer oxygen, if necessary, consult physician.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Avoid temperature below 50°F (causes crystallization) or above 120°F (causes ^{slow} increase in viscosity).
INCOMPATIBILITY (Materials to avoid) Avoid contact with water, alcohols, strong bases, metal compounds, surface active agents			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	Avoid contact with moisture or other materials that react with isocyanates.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Absorb in sawdust or sweeping compound; remove from area in open drums and wet with water containing about 1% ammonia before disposal.
WASTE DISPOSAL METHOD
In accordance with environmental consideration and control regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Canister type gas masks for organic vapors, masks supplied from external air source or self-contained breathing apparatus.		
VENTILATION	LOCAL EXHAUST To maintain vapor concentration below TLV	SPECIAL
	MECHANICAL (General)	OTHER
PROTECTIVE GLOVES		EYE PROTECTION
Chemically resistant		Safety goggles
OTHER PROTECTIVE EQUIPMENT		
Safety showers and eye wash stations should be available.		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
This isocyanate should be protected from humid air and should be stored at 65° - 75°F
OTHER PRECAUTIONS